

PATENT ABSTRACTS OF JAPAN(11)Publication number : **11-322541**(43)Date of publication of application : **24.11.1999**

(51)Int.Cl.

A61K 7/02(21)Application number : **11-103194**(71)Applicant : **L'OREAL SA**(22)Date of filing : **09.04.1999**(72)Inventor : **SIMON JEAN-CHRISTOPHE**

(30)Priority

Priority number : **98 9804581** Priority date : **10.04.1998** Priority country : **FR****(54) MAKEUP KIT CONTAINING COMBINED ANGULAR DEPENDENT COLORANT WITH MONOCHROME COLORANT**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a makeup article capable of imparting new makeup effects, e.g. a colored motif which appears and disappears depending on the motion of a makeup person or incidence angles of lights and angles of observation.

SOLUTION: In a makeup article containing a cosmetically allowable medium, a primary colorant of at least one species and a secondary colorant of at least one species, one colorant is made to be an angular dependent colorant capable of developing different color tones depending on angles of incidence and angles of observation and the other colorant is made to be a monochrome colorant capable of developing one tone of color of the angular dependent colorant.

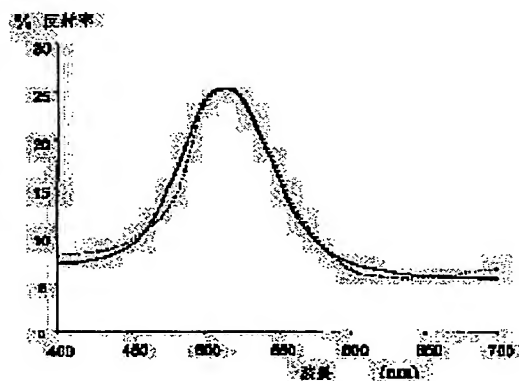


図1に示す光反射率の測定値
図2に示す光反射率の測定値

LEGAL STATUS

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2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

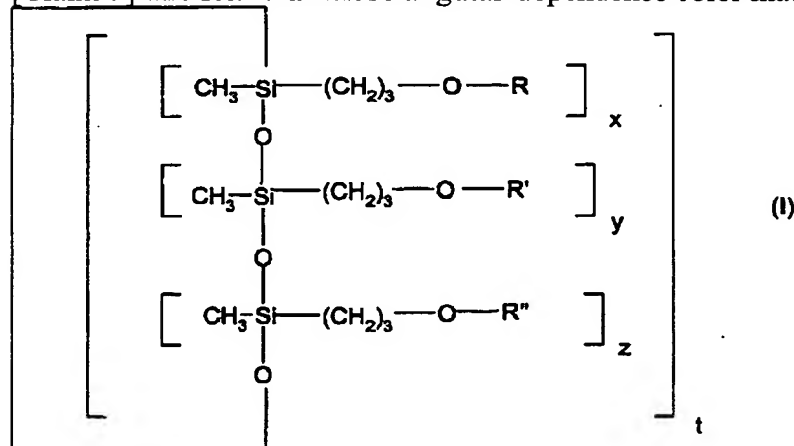
[Claim 1] The product for a makeup characterized by being the angular dependence color material which can color the color tone which changes in the product for a cosmetics makeup containing a medium, at least one sort of 1st color material, and at least one sort of 2nd color material permissible in cosmetics with include angles which one of the color material regards as the incident angle of light, and other color material being the monochrome color material which colors one of the color tones of angular dependence color material.

[Claim 2] The product according to claim 1 characterized by choosing angular dependence color material from middle, liquid crystal color material, and the multilayer interference structure.

[Claim 3] The product according to claim 1 or 2 characterized by choosing angular dependence color material from the shape of a straight chain and annular polymer in which the middle radical carried out the graft.

[Claim 4] That angular dependence color material is cholesteric and a product given in claim 1 characterized by being chosen from the silicone polymer and cellulose ether in which the radical of a biphenyl mold carried out the graft thru/or any 1 term of 3.

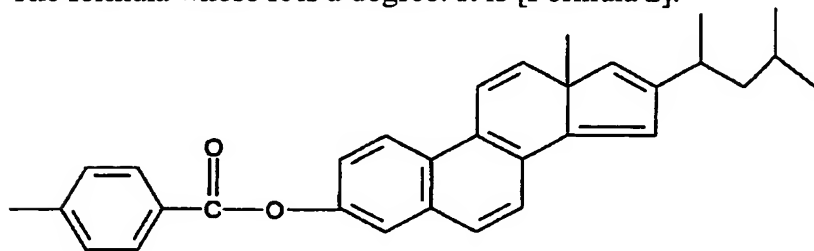
[Claim 5] The formula whose angular-dependence color material is a degree (I): [Formula 1]



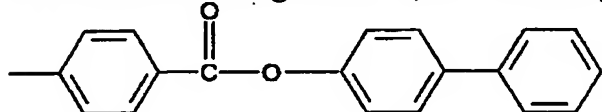
It is $0 \leq x \leq 1$ (preferably 1); $0 \leq y \leq 1$ (preferably 1); $0 \leq z \leq 1$ (preferably 1) among [top type (I), and is $x+y+z \neq 0$;

$3 \leq t \leq 10$;

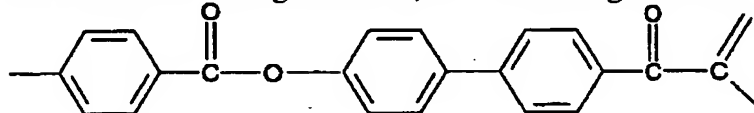
The formula whose R is a degree: It is [Formula 2].



a ** machine -- being shown --;R' -- following formula: -- [Formula 3]



a ** machine -- being shown --;R'' -- following formula: -- [Formula 4]



A product given in claim 1 characterized by being a thing including the silicone content structure of] which shows a ** machine thru/or any 1 term of 4.

[Claim 6] Angular dependence color material The following structure :

aluminum/SiO₂/aluminum/SiO₂/aluminum; Cr/MgF₂/aluminum/MgF₂/aluminum;

MoS₂/SiO₂/aluminum/SiO₂/MoS₂; Fe₂O₃-/SiO₂/aluminum/SiO₂/Fe₂O₃; It is a thing containing the multilayer interference structure chosen from a

Fe₂O₃/SiO₂/Fe₂O₃/SiO₂/Fe₂O₃; MoS₂/SiO₂/oxidation mica / 2O₃-/SiO₂/oxidation mica of SiO₂/MoS₂;Fe(s) / SiO₂/Fe 2O₃. The product according to claim 1 or 2 characterized by a certain thing.

[Claim 7] A product given in claim 1 to which monochrome color material is characterized by being chosen from a monochrome color, a monochrome pigment, and/or a pearl pigment thru/or any 1 term of 6.

[Claim 8] Monochrome color material Titanium oxide, a zirconium dioxide, cerium oxide, and a zinc oxide, Ferrous oxide and chromic oxide, iron blue, carbon black and barium, strontium, Calcium and the lakes of aluminum, the Sudan red, DC Red 17, DC Green 6, beta carotene, Soybean oil, Sudan brown, DC Yellow 11, DC Violet 2, DC Orange 5, and quinoline yellow, A product given in claim 1 characterized by being chosen from the mica covered with titanium oxide, ferrous oxide, a colored natural pigment, or colored bismuth oxychlorides, such as mica titanium, thru/or any 1 term of 7.

[Claim 9] Each color material is a product given in claim 1 to which it is characterized by being 0.05 - 85% preferably 0.01 to 98% thru/or any 1 term of 8 to the total weight of a product.

[Claim 10] A product given in claim 1 characterized by being the gestalt of foundation, nail lacquer, the product for a makeup of the body or the product for a makeup of a lip, cheek red, or eye shadow thru/or any 1 term of 9.

[Claim 11] A product given in claim 1 characterized by including in the 1st and 2nd constituents with which the 1st and 2nd color material contains a medium permissible in cosmetics, respectively thru/or any 1 term of 10.

[Claim 12] A product given in the vesicle dispersion liquid to which oiliness or an aquosity solution, oiliness or aquosity gel, an oil-in-water type or a water-in-oil type emulsion, and an endoplasmic reticulum are located in the interface of an oil/water and which the oil distributed in water or claim 1 characterized by being the gestalt of powder thru/or any 1 term of 11.

[Claim 13] A product given in claim 1 characterized by the medium permissible in cosmetics containing further at least one sort of components chosen from the thickener, the surfactant, the antioxidant, the perfume, the plasticizer, neutralizer, and stabilizer for an oil, a solvent, a low, a coat formation polymer, a filler, a hydrophilic property or an oleophilic active substance, the aqueous phase, or oil phases thru/or any 1 term of 12.

[Claim 14] The 1st layer which consists of a medium permissible in cosmetics and the 1st constituent containing at least one sort of 1st color material is applied to the skin, a human lip, and/or a human dermal skeleton appendage. Subsequently In the makeup approach of the skin of the Homo sapiens who consists of applying the 2nd layer which consists of a medium permissible in cosmetics, and the 2nd constituent containing at least one sort of 2nd color material to a part of 1st above-mentioned layer, a lip, and/or a dermal skeleton appendage The makeup approach characterized by for one of the color material being the angular dependence color material which can be colored to the color tone which changes with include angles regarded as the incident angle of light, and other color

material being the monochrome color material which colors one of the color tones of angular dependence color material.

[Claim 15] The approach according to claim 14 characterized by the 2nd layer being discontinuous.

[Claim 16] The approach according to claim 14 or 15 characterized by the 2nd layer consisting of a motif.

[Claim 17] An approach given in claim 14 to which the 2nd layer is characterized by consisting of random or a motif distributed in line in a symmetry form or an unsymmetrical form thru/or any 1 term of 16.

[Claim 18] An approach given in claim 14 characterized by choosing angular dependence color material from middle or liquid crystal color material, and the multilayer interference structure thru/or any 1 term of 17.

[Claim 19] Angular dependence color material The following structure :

aluminum/SiO₂/aluminum/SiO₂/aluminum; Cr/MgF₂/aluminum/MgF₂/aluminum;

MoS₂/SiO₂/aluminum/SiO₂/MoS₂; Fe₂O₃-/SiO₂/aluminum/SiO₂/Fe₂O₃; It is a thing containing the multilayer interference structure chosen from a

Fe₂O₃/SiO₂/Fe₂O₃/SiO₂/Fe₂O₃; MoS₂/SiO₂/oxidation mica / 2O₃-/SiO₂/oxidation mica of SiO₂/MoS₂; Fe(s) / SiO₂/Fe 2O₃. An approach given in claim 14 characterized by a certain thing thru/or any 1 term of 18.

[Claim 20] An approach given in claim 14 characterized by choosing angular dependence color material from the shape of a straight chain and the annular polymer in which the middle radical carried out the graft thru/or any 1 term of 18.

[Claim 21] That angular dependence color material is cholesteric and an approach given in claim 14 characterized by being chosen from the silicone polymer or cellulose ether in which the radical of a biphenyl mold carried out the graft thru/or any 1 term of 18.

[Claim 22] An approach given in claim 14 to which monochrome color material is characterized by being chosen from a monochrome color and a monochrome pigment, and/or a pearl pigment thru/or any 1 term of 21.

[Claim 23] Monochrome color material Titanium oxide, a zirconium dioxide, cerium oxide, and a zinc oxide, Ferrous oxide and chromic oxide, iron blue, carbon black and barium, strontium, Calcium and the lakes of aluminum, the Sudan red, DC Red 17, DC Green 6, beta carotene, Soybean oil, Sudan brown, DC Yellow 11, DC Violet 2, DC Orange 5, and quinoline yellow, An approach given in claim 14 characterized by being chosen from the mica covered with titanium oxide, ferrous oxide, a colored natural pigment, or colored bismuth oxychlorides, such as mica titanium, thru/or any 1 term of 22.

[Claim 24] In the makeup kit which has a medium permissible in cosmetics, the 1st constituent containing at least one sort of 1st color material, and a medium permissible in cosmetics and the 2nd constituent containing at least one sort of 2nd color material The makeup kit characterized by for one of the color material being the angular dependence color material which can color the color tone which changes with include angles regarded as the incident angle of light, and other color material being the monochrome color material which colors one of the color tones of angular dependence color material.

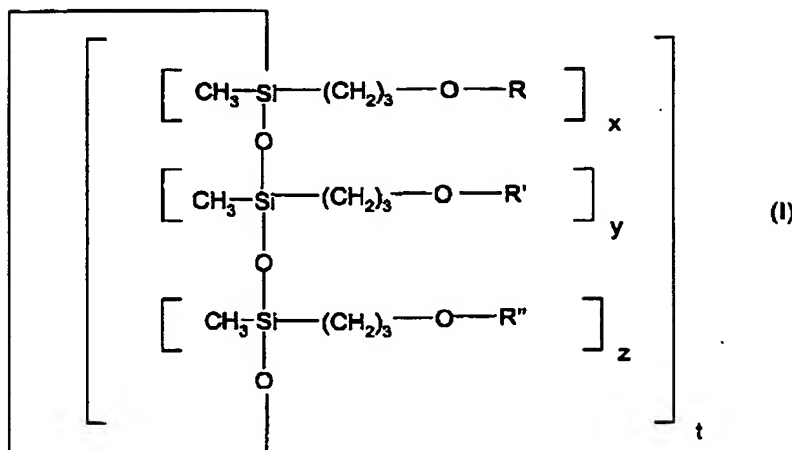
[Claim 25] The kit according to claim 24 characterized by including in the 1st and 2nd constituents with which the 1st and 2nd color material contains a medium permissible in cosmetics separately, respectively.

[Claim 26] The kit according to claim 24 or 25 characterized by choosing angular dependence color material from middle, liquid crystal color material, and the multilayer interference structure.

[Claim 27] A kit given in claim 24 characterized by choosing angular dependence color material from the shape of a straight chain and the annular polymer in which the middle radical carried out the graft thru/or any 1 term of 26.

[Claim 28] That color material is cholesteric or a kit given in claim 24 characterized by being chosen from the silicone polymer or cellulose ether in which the radical of a biphenyl mold carried out the graft thru/or any 1 term of 27.

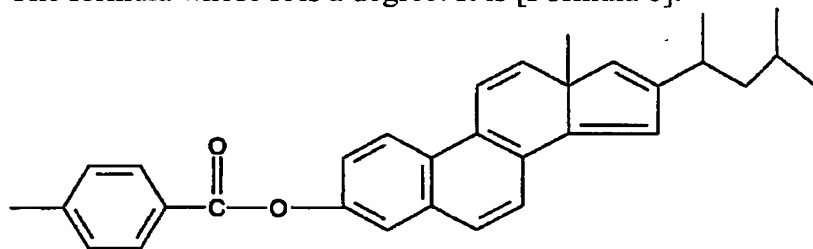
[Claim 29] The formula whose color material is a degree (I): [Formula 5]



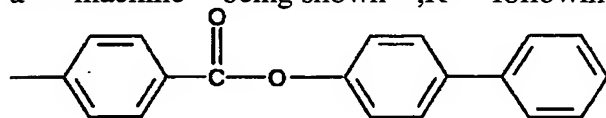
It is $0 \leq x \leq 1$ (preferably 1); $0 \leq y \leq 1$ (preferably 1); $0 \leq z \leq 1$ (preferably 1) among [top type (I), and is $x+y+z \neq 0$;

$3 \leq t \leq 10$;

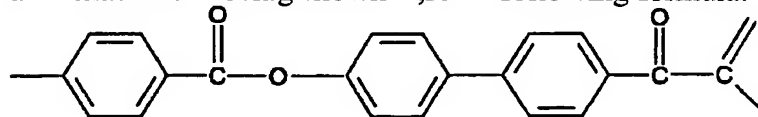
The formula whose R is a degree: It is [Formula 6].



a ** machine -- being shown --; R' -- following formula: -- [Formula 7]



a ** machine -- being shown --; R'' -- following formula: -- [Formula 8]



A kit given in claim 24 characterized by being a thing containing the silicone content structure of] which shows a ** machine thru/or any 1 term of 28.

[Claim 30] The color material which has a multilayer-structure object The following structure : aluminum/SiO₂/aluminum/SiO₂/aluminum; Cr/MgF₂/aluminum/MgF₂/aluminum;

MoS₂/SiO₂/aluminum/SiO₂/MoS₂; Being chosen from a

Fe₂O₃/SiO₂/aluminum/SiO₂/Fe₂O₃; Fe₂O₃/SiO₂/Fe₂O₃/SiO₂/Fe₂O₃; MoS₂/SiO₂/oxidation mica / 2O₃-/SiO₂/oxidation mica of SiO₂/MoS₂; Fe(s) / SiO₂/Fe₂O₃ The kit according to claim 24 or 26 by which it is characterized.

[Claim 31] A kit given in claim 24 to which monochrome color material is characterized by being chosen from a monochrome color, a monochrome pigment, and a pearl pigment thru/or any 1 term of 30.

[Claim 32] Monochrome color material Titanium oxide, a zirconium dioxide, cerium oxide, and a zinc oxide, Ferrous oxide and chromic oxide, iron blue, carbon black and barium, strontium, Calcium and the lakes of aluminum, the Sudan red, DC Red 17, DC Green 6, beta carotene, Soybean oil, Sudan brown, DC Yellow 11, DC Violet 2, DC Orange 5, and quinoline yellow, A kit given in claim 24 characterized by being chosen from the mica covered with titanium oxide, ferrous oxide, a colored natural pigment, or colored bismuth oxychlorides, such as mica titanium, thru/or any 1 term

of 31.

[Claim 33] A kit given in claim 24 characterized by providing a means to apply the 1st and 2nd constituents to the skin, membrane, and/or a dermal skeleton appendage thru/or any 1 term of 32.

[Claim 34] The kit according to claim 33 characterized by being chosen from a brush with said detailed and coarse means, a SUTERO graph, a pen, a feather pen, a ** pen, and a pencil.

[Claim 35] A kit given in claim 25 to which the 1st and 2nd constituents are characterized by being packed by a separate partition or a separate container thru/or any 1 term of 34.

[Claim 36] A kit given in claim 25 characterized by the medium permissible in cosmetics containing further at least one sort of components chosen from the thickener, the surfactant, the antioxidant, the perfume, the plasticizer, neutralizer, and stabilizer for an oil, a solvent, a low, a coat formation polymer, a filler, a hydrophilic property or an oleophilic active substance, the aqueous phase, or oil phases thru/or any 1 term of 35.

[Claim 37] A kit given in claim 25 characterized by being a gestalt although these endoplasmic reticulums are located in the interface of an oil/water by the vesicle dispersion liquid which the oil distributed [the constituent] in oiliness or an aquosity solution, oiliness or aquosity gel, an oil-in-water type or a water-in-oil type emulsion, powder, and water thru/or any 1 term of 36.

[Claim 38] A kit given in claim 25 characterized by a constituent being the gestalt of foundation, nail lacquer, the product for a makeup of the body or the product for a makeup of a lip, cheek red, or eye shadow thru/or any 1 term of 37.

[Claim 39] Use of a product given in claim 1 which uses the product for a makeup in order to appear or disappear according to the include angle which the colored motif on the human skin, a lip, and/or a dermal skeleton appendage looks at thru/or any 1 term of 13.

[Claim 40] The constituent characterized by choosing this color material from the multilayer interference structure in the cosmetics constituent containing a medium permissible in cosmetics, and the angular dependence color material which can color the color tone which changes with include angles regarded as the incident angle of light.

[Claim 41] The multilayer interference structure The following structure :

aluminum/SiO₂/aluminum/SiO₂/aluminum; Cr/MgF₂/aluminum/MgF₂/aluminum;

MoS₂/SiO₂/aluminum/SiO₂/MoS₂; Being chosen from a

Fe₂O₃/SiO₂/aluminum/SiO₂/Fe₂O₃; Fe₂O₃/SiO₂/Fe₂O₃/SiO₂/Fe₂O₃; MoS₂/SiO₂/oxidation mica / 2O₃-/SiO₂/oxidation mica of SiO₂/MoS₂; Fe(s) / SiO₂/Fe₂O₃ The cosmetics constituent according to claim 40 by which it is characterized.

[Claim 42] In the makeup base which consists of the 2nd layer by the 2nd constituent which is arranged on a part of 1st layer, and contains 2nd at least one color material the 1st layer by the 1st constituent containing 1st at least one color material -- this -- Support characterized by for one color material being the angular dependence color material which can color the color tone which changes with include angles regarded as the incident angle of light, and the color material of another side being the monochrome color material which colors one of the color tones of angular dependence color material.

[Claim 43] Support according to claim 42 characterized by being the gestalt of a false pawl, a false eyelash, or a hairpiece.

[Claim 44] Support according to claim 42 or 43 characterized by the 2nd layer being discontinuous.

[Claim 45] Support given in claim 42 characterized by the 2nd layer consisting of random or a motif distributed in line thru/or any 1 term of 44.

[Translation done.]